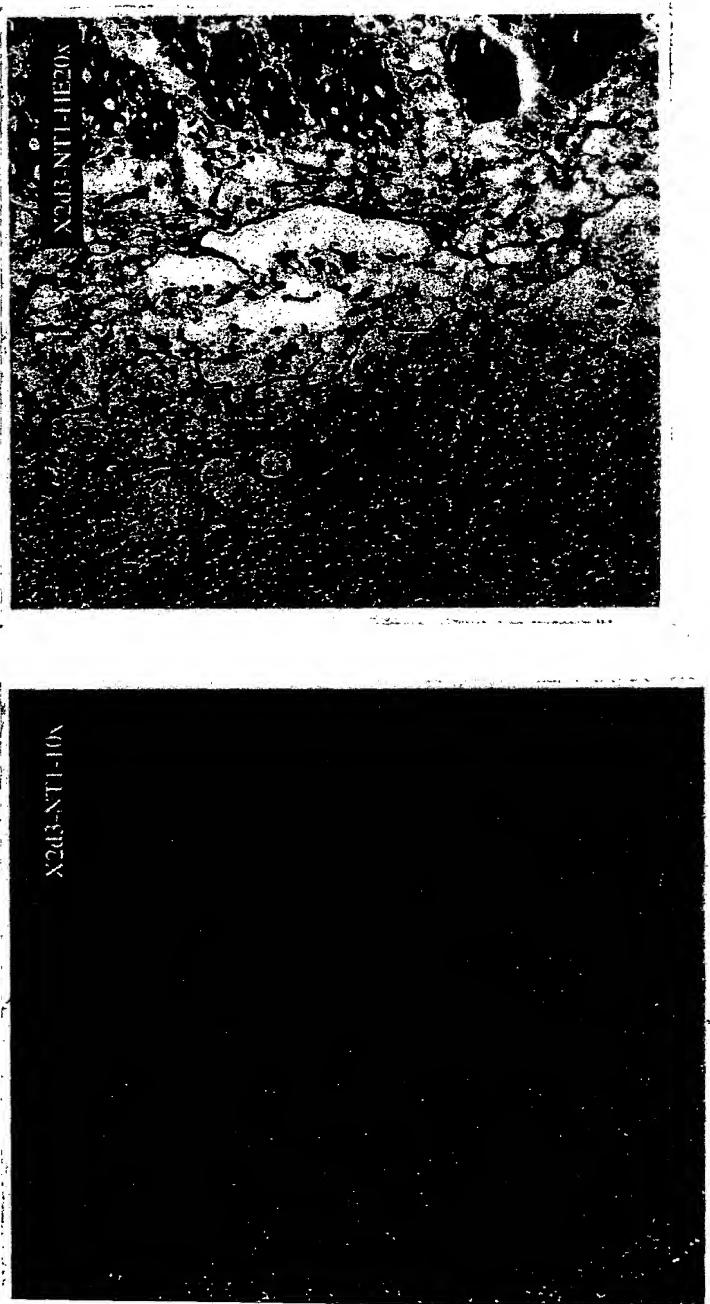


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Non-Transduced hMSCs in Immuno-competent mouse muscle
Day 3

Dil + hMSCs

X243.NT1-10x



1 / 19

F I G. 1 α

FIG. 16

Human MSCSS in Mouse Muscle: Day 7

DII labelled cells +
Sybr-green staining
of all nuclei
(H&E)

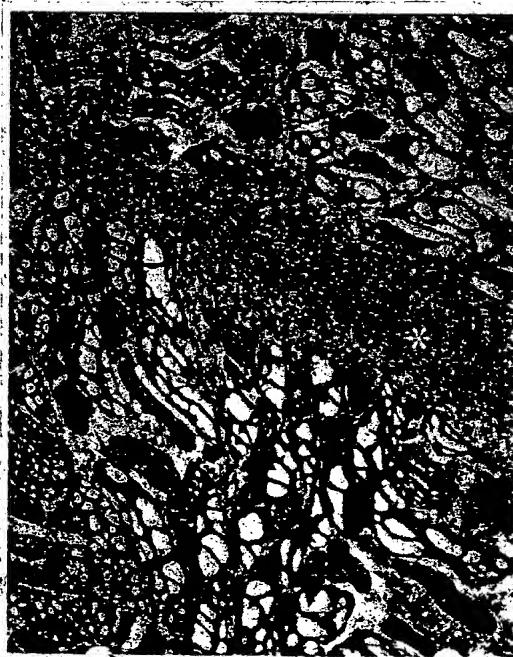


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F I G . 1c

Human MSCs in Mouse Muscle Day-7

(H&E, 20X)



3 / 19

+

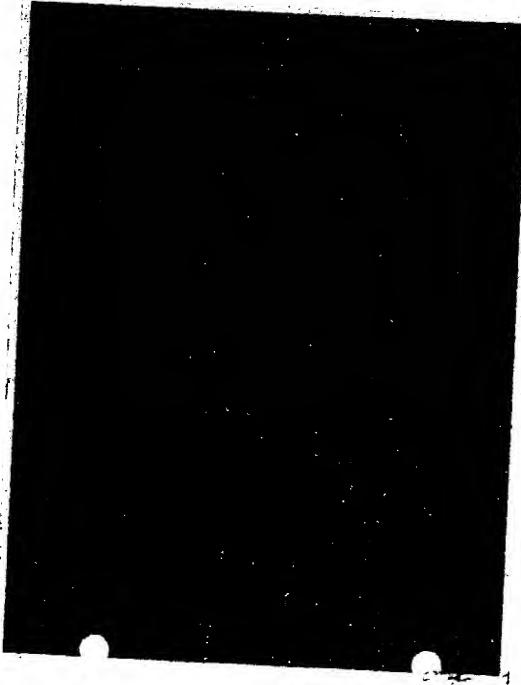
+

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FIG. 1d

Human MSCs in Mouse Muscle: Day 14

Fluorescent Field, 10X



H&E 40X



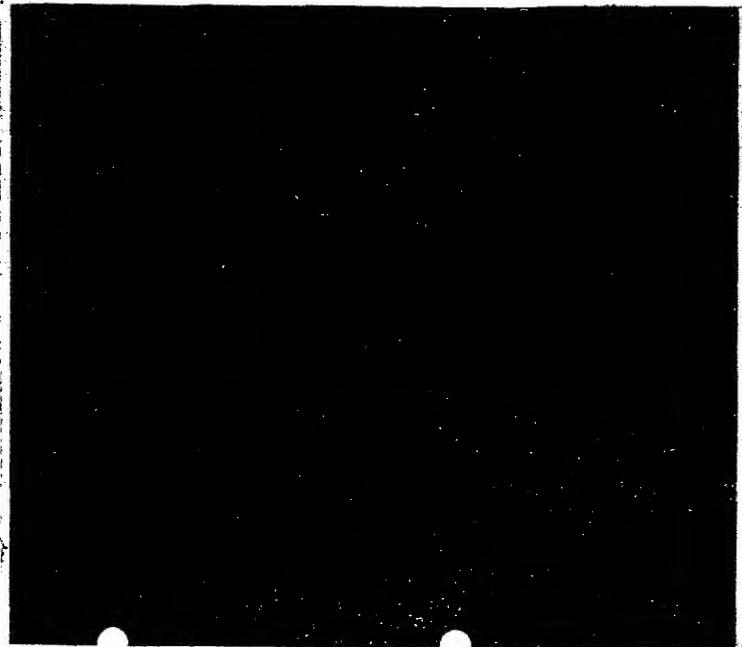
4 / 19

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DiI-Positive d-GalA Transduced hMSCs in
Immuno-competent mouse muscle

d29



d43



5 / 10

+

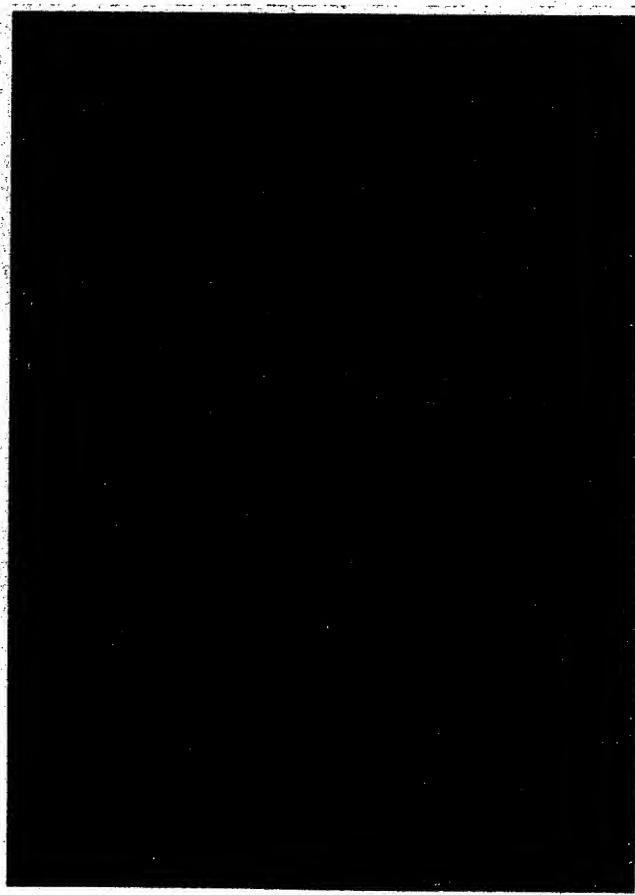
+

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Human α GalA-Transduced MSCs in Mouse Muscle: Day-57

10X

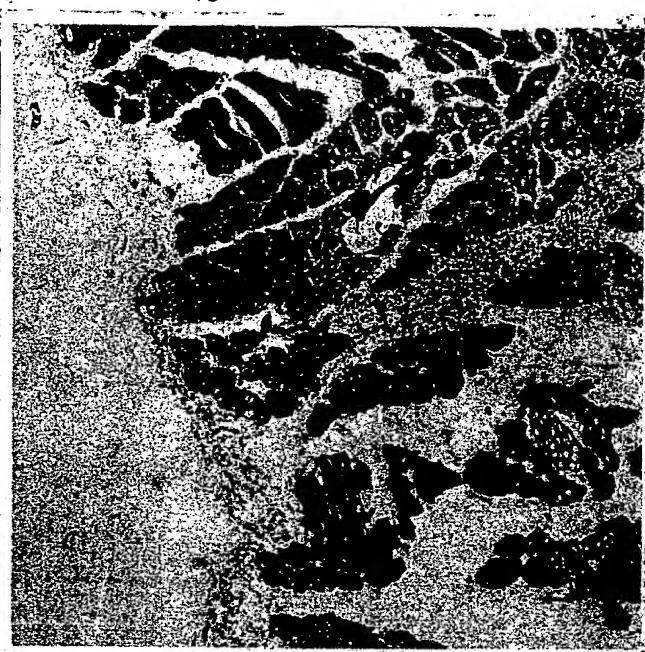
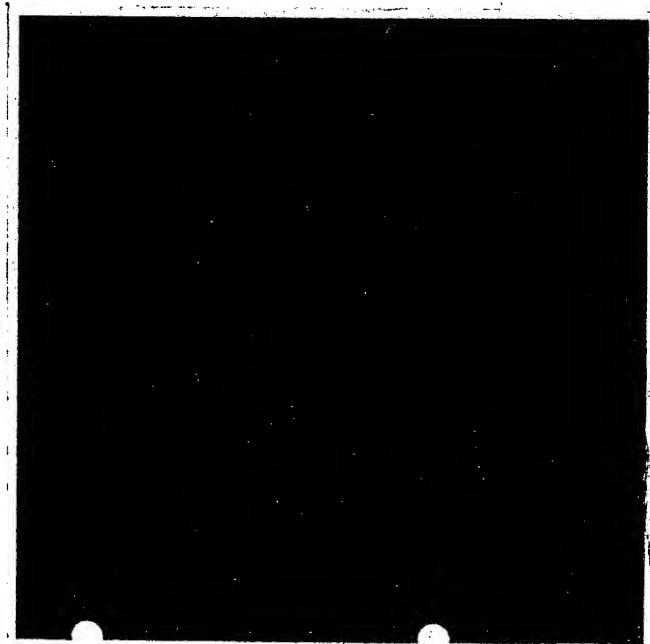


6 / 19

+
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FIG. 2

D3: IM injection of DiI-labeled PBMCs



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8 / 19

FIG. 3

D3 IM injection of saline

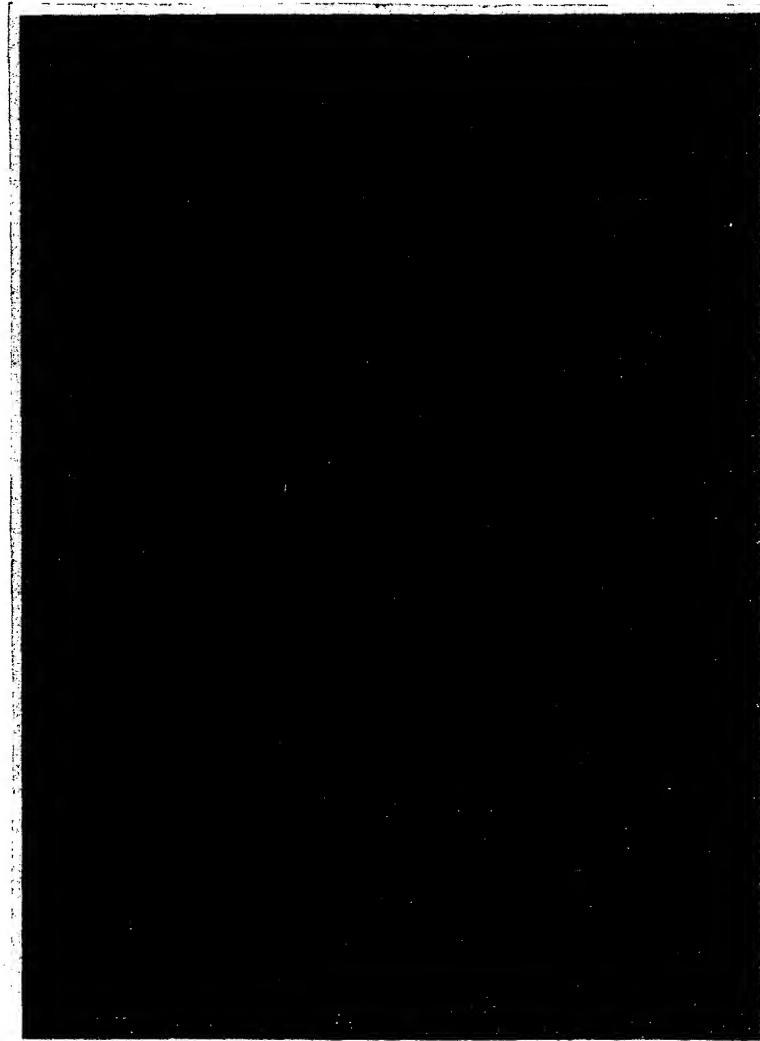


+

+
ESTE "Scanning

F I G. 4

Red and Blue Fluorescence Channels merged



+

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FIG. 5

α Gala Immunostain of Muscle from Mouse
injected IM with α Gala-hMSCs: 14 days



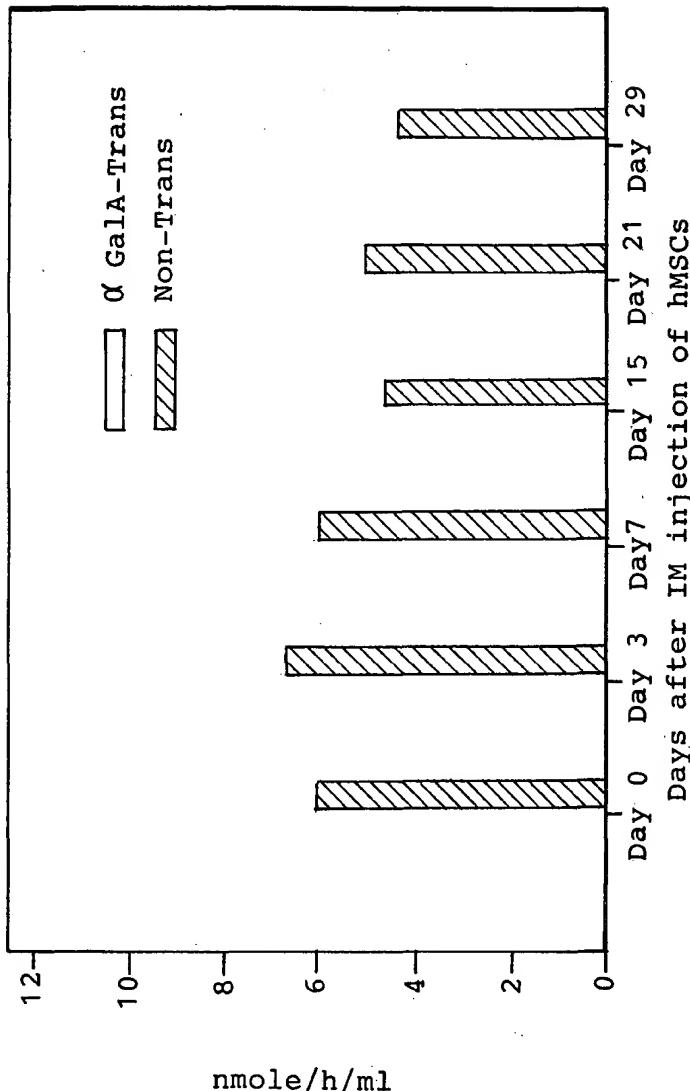
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FIG. 6

α -Gala activity in Plasma of Mice
IM-injected with α -GalA-Transduced h MSCs



#: No MSCs, *n=2,

Fabry Mice plasma: 0.5 nmole/h/ml, PNAS 97:7515

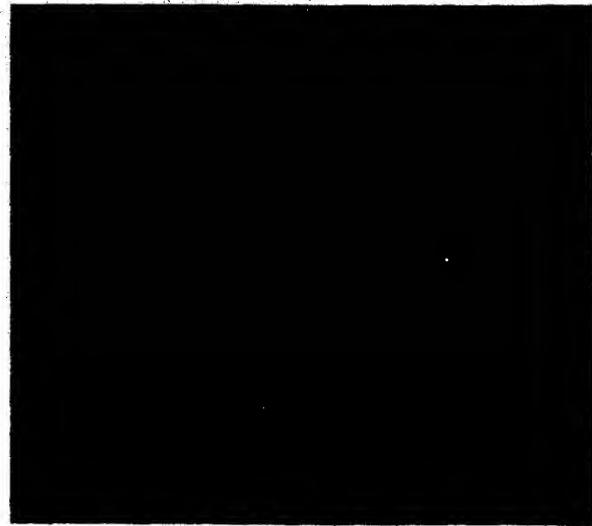
+

2007年9月22日

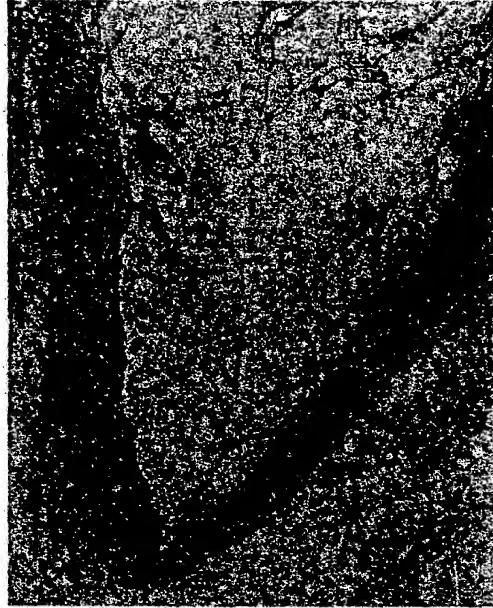
FIG. 7α

Human-specific Alu sequence staining of hMSCs
injected into Immuno-competent mouse muscle

Dil-positive cells



Alu-sequence positive cells



12 / 19

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1

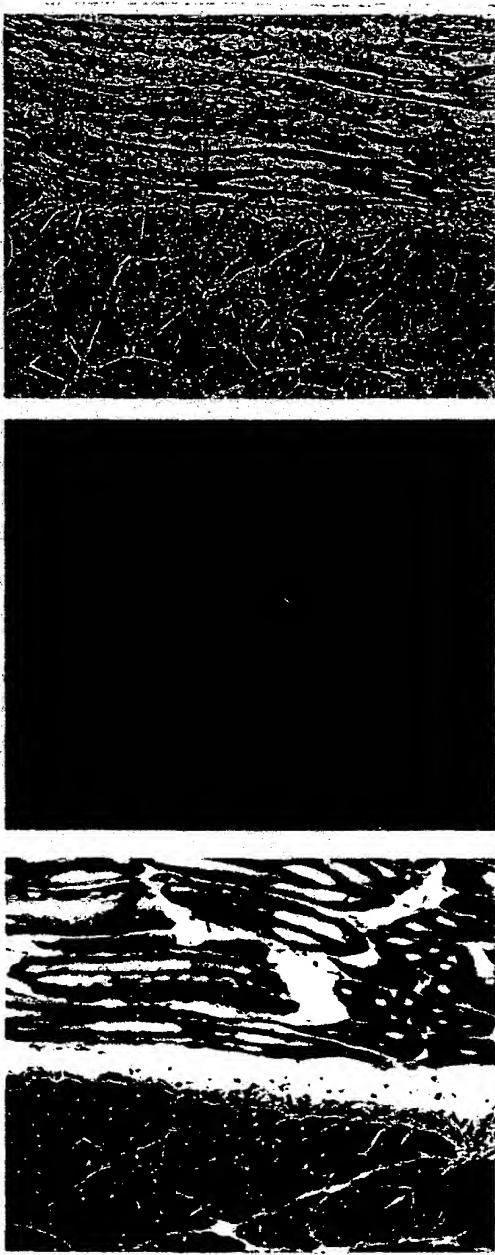
+

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FIG. 7b

Human MSCs in Mouse Muscle: 43 days

H & E Dil Positive Cells Alu-Positive cells



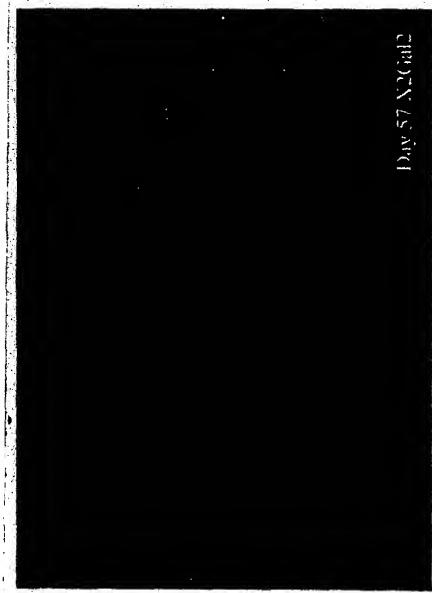
13 / 19

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Day 57 DiII/Alu



Day 57 N26Gal2



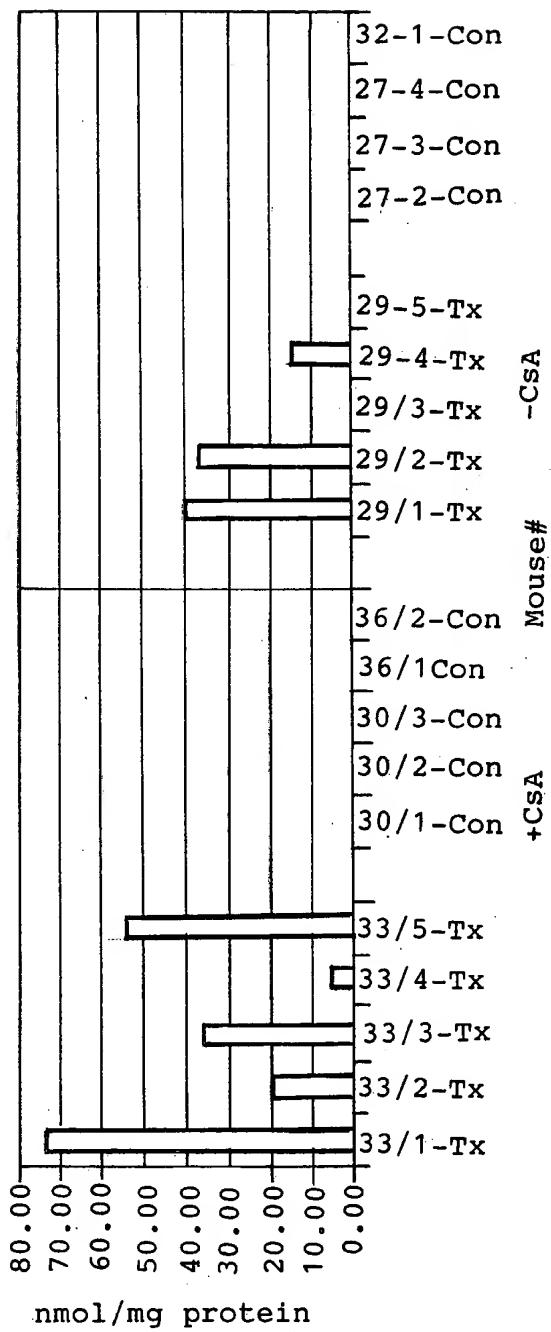
F1 G.7c

14 / 19

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Fig. 8a

α GalA Activity in Muscles of Fabry-KO mice:
14 days after IM injection of α GalA-Transduced hMSCs

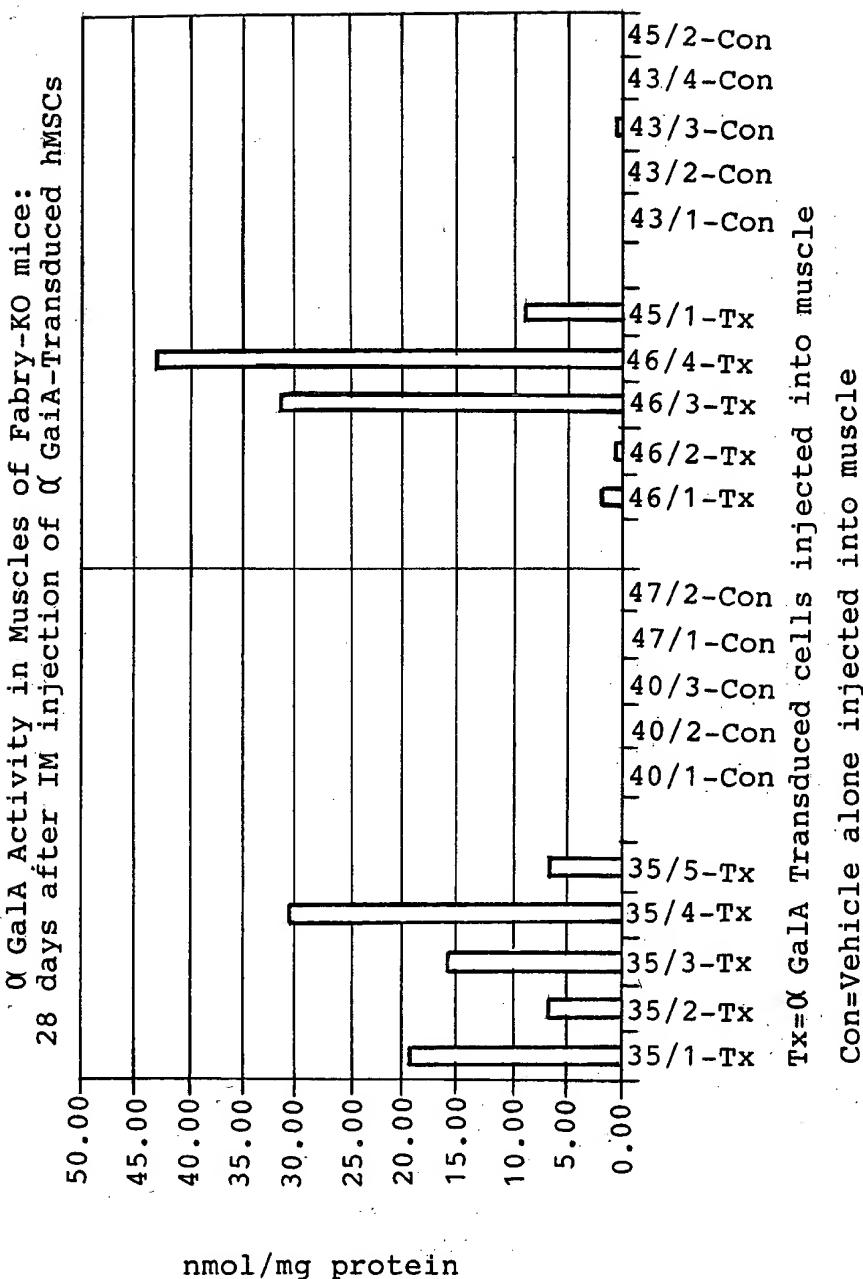


Tx = α GalA Transduced cells injected into muscle

Con = Vehicle alone injected into muscle

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FIG. 8b



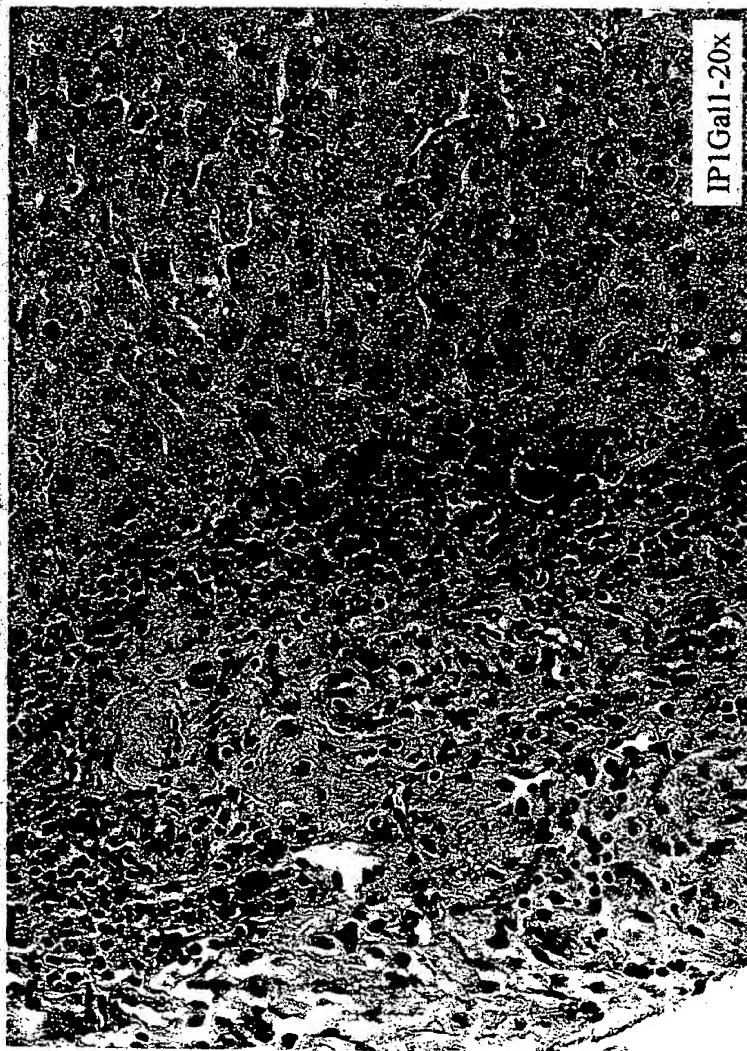
205 140 " 52215 560

+

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FIG. 9a

α Gala Immunostain of Liver from KO Mouse
injected IP with α Gala-hMSCs on Multisphers:
14 days



MP1Gall-20x

+

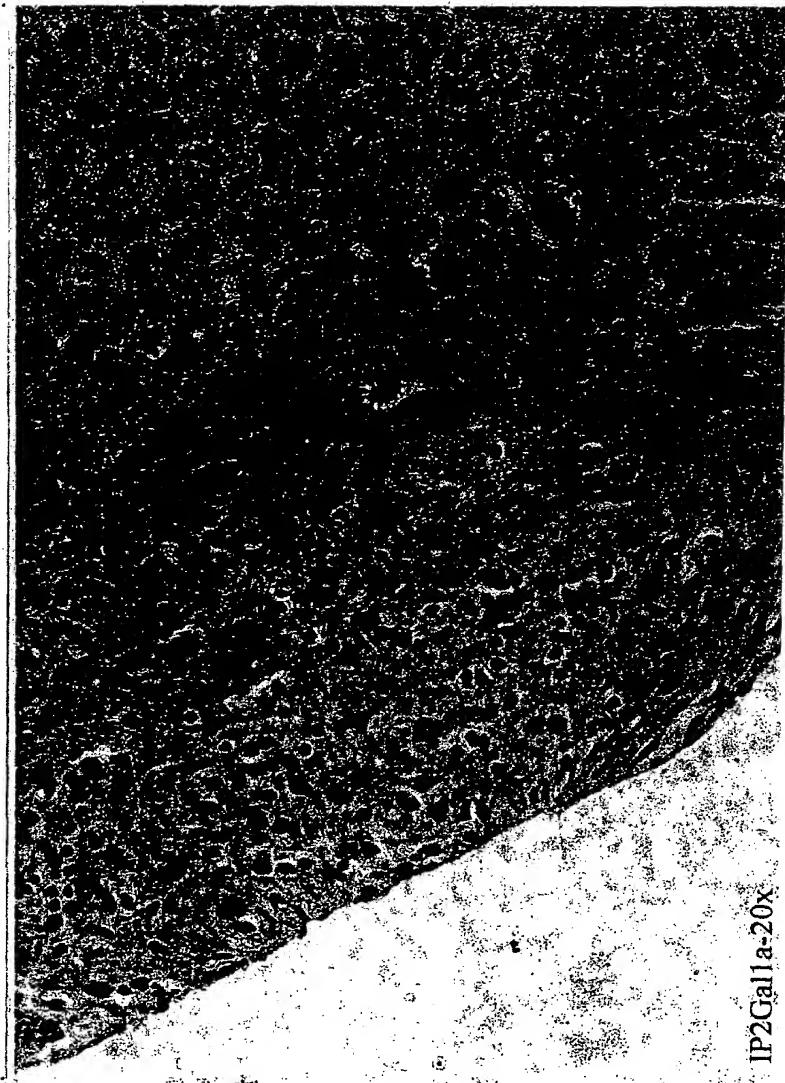
2007-04-09 "Ganglioside Gangliotetraose"

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18 / 19

F I G. 9 b

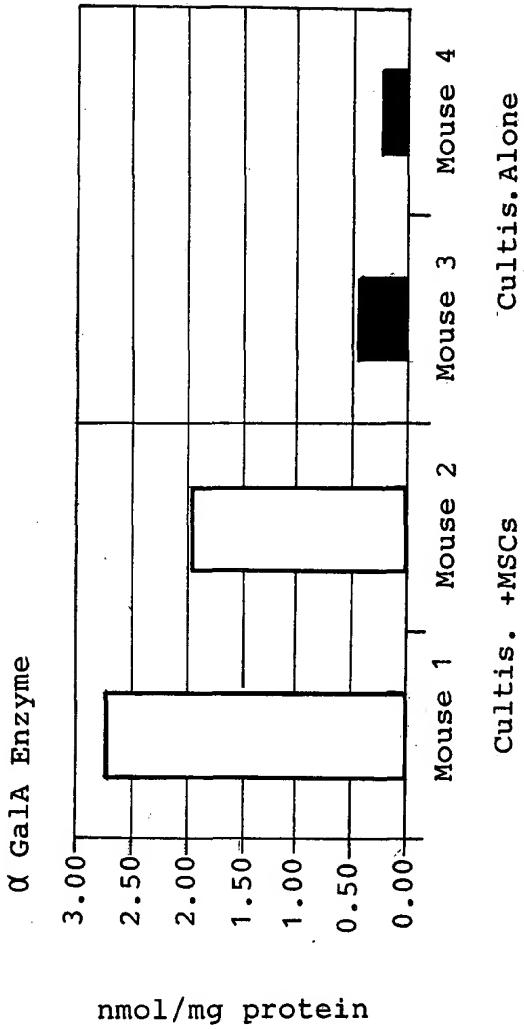
α GalA Immunostain of Liver from KO Mouse
injected IP with α GalA-hMSCs on Multispheres:
14 days



+

FIG. 10

Intra-Peritoneal Delivery of α GalA-Transduced hMSCs
to Fabry Knock-Out Mice



Increase in α GalA is 5% of normal mouse liver activity (41 nmole/mg)